ALACRON

FastVGA PMC Mezzanine Board

One of Alacron's recent additions to its FastSeries family, based on Philips' TriMedia processor, is FastVGA PMC daughter-card that lets you add very high speed extra I/O ports to your FastImage 1303 or FastFrame 1303 PCI board.


The Future of Image Aquisition and Processing

FastVGA PMC Mezzanine Key Features:

■ Four muxed 24 bit (RGB) input channels

■ 100 MHz (140MHz) input conversion and control

■ Real-time capture of high resolution VGA, LCD video, up to 1280x1024 (SXGA) at 75Hz

■ 32-bit side-band to FastSeries crossbar in P4 connector

■ PMC form factor

■ Fast Channel

 •80 MHz 32 bit persistent channels in 4 bit increments for intra- and interboard communication

 •Point to Point connections at up to 320 MB/s via cross bar interconnect

 •Data traffic does not affect host CPU or PCI bus

 •Digital, 32 data bits with control and clock

 •32 bidirectional interboard communications links
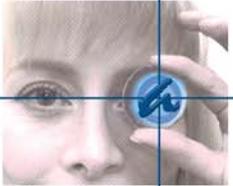
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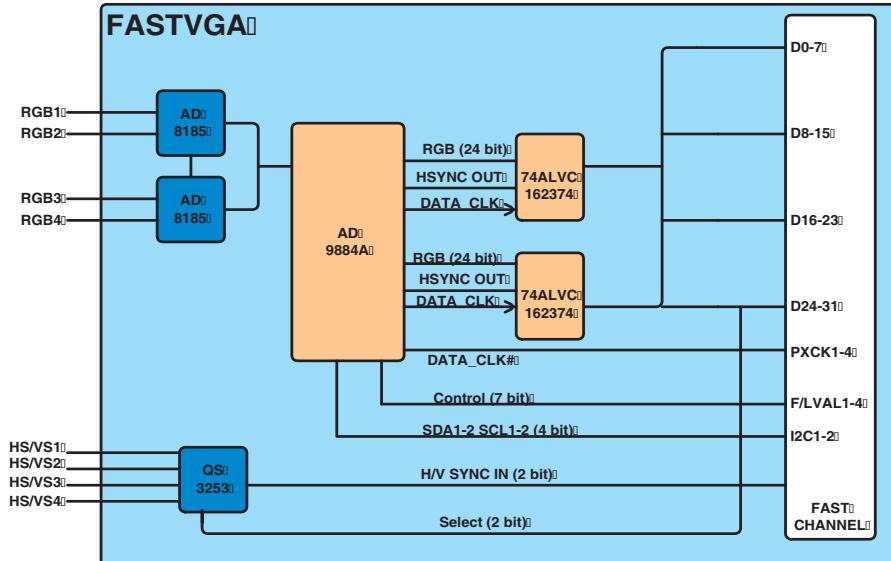
SPECIFICATIONS

ANALOG VIDEO CAPTURE MUX (4 CHANNELS)
- 2-1 muxed converter - Two
- Channel to channel switching - 15 ns.
- Bandwidth - 380 MHz
- Channel to channel crosstalk- -50dB @ 100 MHz
- "OFF" isolation @ 10 MHz - -100dB

ANALOG (24 BIT) CAPTURE
- Maximum conversion rate - 140 MSPS
- Analog bandwidth - 500 MHz
- Analog input range - 0.5 - 1.0 V
- PLL clock jitter - 400 ps
- Pixel clock output frequencies - 20-140 MHz
- Formats supported - Analog capture resolutions at 24 bits of 1280x1024 (SXGA) at 75 Hz

FAST CHANNEL
- 80 MHz 32 bit persitent channels in 4 bit increments for intra- and interboard communication
- Point to point connections at up to 320 MB/s via cross bar interconnect
- Data traffic does not affect host CPU or PCI bus